

Editors-in-Chief

G. Ausiello

Università di Roma “La Sapienza”, Dipartimento di Informatica e Sistemistica, Via Ariosto 25, 00185 Roma, Italy
Email: ausiello@dis.uniroma1.it

D. Sannella

University of Edinburgh, School of Informatics, 10 Crichton Street, Edinburgh EH8 9AB, Scotland
Email: dts@inf.ed.ac.uk

Founding Editor

M. Nivat

10 Avenue des Chardonnerets, 95570 Attainville, France
Email: maurice.nivat@liafa.jussieu.fr

Honorary Board

J.W. de Bakker

Mathematics and Computer Science, Department of Computer Science, P.O. Box 4079, 1009 AB Amsterdam, The Netherlands
Email: jaco@cwi.nl

C. Böhm

Università di Roma, *La Sapienza*, via S. Crescenziano 20, I-00199 Rome, Italy
Email: bohm@di.uniroma1.it

E. Engeler

ETH Zentrum, Department of Mathematics, CH-8092, Zürich, Switzerland
Email: engeler@math.ethz.ch

M.A. Harrison

University of California, Computer Science Division, 775 Soda Hall, Berkeley, CA 94720-1776, USA
Email: harrison@cs.berkeley.edu

Z. Manna

Stanford University, Computer Science Department, Stanford, CA 94305, USA
Email: manna@cs.stanford.edu

A.R. Meyer

Massachusetts Institute of Technology, Laboratory for Computer Science, 545 Technology Square, Cambridge, MA 02139, USA
Email: meyer@lcs.mit.edu

M. Nivat

10 Avenue des Chardonnerets, 95570 Attainville, France
Email: maurice.nivat@liafa.jussieu.fr

F.D. Preparata

Brown University, Department of Computer Science, P.O. Box 1910, Providence, RI 02912-1910, USA
Email: france@cs.brown.edu

A. Salomaa

Turku Centre for Computer Science, Lemminkäisenkatu 14A, 205 20 Turku, Finland
Email: asalomaa@utu.fi

E. Shamir

The Hebrew University, Institute of Mathematics, Jerusalem, 91904 Israel
Email: shamir@cs.huji.ac.il

R. Siromoney

Madras Christian College, Department of Mathematics, Tambaram, Madras, 600059, India
Email: ranisiro@satyam.net.in

Editorial Board: Algorithms, Automata, Complexity and Games (TCS-A)

G. Ausiello (Editor-in-Chief)

Università di Roma “La Sapienza”, Dipartimento di Informatica e Sistemistica, Via Ariosto 25, 00185 Roma, Italy
Email: ausiello@dis.uniroma1.it

A. Apostolico

Georgia Institute of Technology, College of Computing, Klaus Advanced Computing, 266 Ferst Drive, Atlanta, GA 30332 - 0280, USA
Email: axa@cc.gatech.edu

M. Crochemore

Université de Marne la Vallée, Institut Gaspard Monge, F-77454 Marne-la-Vallée Cedex 2, France
Email: Maxime.Crochemore@univ-mlv.fr

F. Cucker

City University of Hong Kong, Department of Mathematics, 83 Tat Chee Avenue, Kowloon, Hong Kong
Email: macucker@sobolev.cityu.edu.hk

X. Deng

Department of Computer Science, University of Liverpool, Liverpool, L69 3BX, UK
Email: xiaotie@liv.ac.uk

J. Díaz

Universitat Politècnica de Catalunya (UPC), Departament de Llenguatges i Sistemes Informàtics, Campus Nord, Edifici Omega, Jordi Girona Salgado 1-3, E-08034 Barcelona, Spain
Email: diaz@lsi.upc.edu

D.-Z. Du

University of Texas at Dallas, Department of Computer Science, Richardson, TX 75080, USA
Email: dzdu@utdallas.edu

B. Durand

LIM-CMI, 39 rue Joliot-Curie, 13453 Cedex 13 Marseille, France
Email: bruno.durand@cmi.univ-mrs.fr

T. Erlebach

University of Leicester, Department of Computer Science, F5 Computer Science Building, University Road, Leicester, LE1 7RH, UK
Email: t.erlebach@mcs.le.ac.uk

Z. Esik

University of Szeged, Department of Computer Science, P.O. Box 652, H-6720 Szeged, Hungary
Email: ze@inf.u-szeged.hu

A. Fiat

Department of Computer Science, Tel-Aviv University, Ramat Aviv, 69978 Tel Aviv, Israel
Email: fiat@math.tau.ac.il

A.S. Fraenkel

Weizmann Institute of Science, Faculty of Mathematical Science, Dept. of Computer Science and Applied Mathematics,
P.O. Box 26, Rehovot 76100, Israel
Email: fraenkel@wisdom.weizmann.ac.il

R. Gavalda

Universitat Politècnica de Catalunya (UPC), Departament de Llenguatges i Sistemes Informàtics, Campus Nord, Edifici Omega, Jordi Girona Salgado 1-3, E-08034 Barcelona, Spain
Email: gavalda@lsi.upc.edu

R. Giancarlo

Università degli Studi di Palermo, Department of Mathematics, Computer Science Section, via Archirafi 34, 90123 Palermo, Italy
Email: raffaele@math.unipa.it

S. Goldwasser

Massachusetts Institute of Technology, Department of Electrical Engineering and Computer Science, 77 Massachusetts Avenue, Cambridge, MA 02139-4307, USA
Email: shafi@csail.mit.edu

O.H. Ibarra

University of California at Santa Barbara, Department of Computer Science, Santa Barbara, CA 93106, USA
Email: ibarra@cs.ucsb.edu

G.F. Italiano

Università degli studi di Roma 'Tor Vergata', Dipartimento di Informatica, Sistemi e Produzione, Via di Tor Vergata 110, 00133 Roma, Italy
Email: italiano@disp.uniroma2.it

M. Ito

Kyoto Sangyo University, Faculty of Science, Kamigamo-Motoyama, Kita-ku, Kyoto, 603, Japan
Email: ito@ksu.vx0.kyoto-su.ac.jp

J. Karhumäki

University of Turku, Department of Mathematics, FIN-20014 Turku, Finland
Email: karhumak@utu.fi

M. Kiwi

Depto. Ing. Matemática, U. Chile, Correo 3, Santiago 170-3, Chile
Email: mk@dim.uchile.cl

R. Klasing

LaBRI - Université Bordeaux 1, 351, cours de la Libération, 33405 Talence cedex, France
Email: ralf.klasing@labri.fr

J. Kratochvíl

Charles University, Department of Applied Mathematics, Malostranské nám. 25, 118 00 Praha 1, Czech Republic
Email: honza@kam.mff.cuni.cz

V. Pan

City University of New York, Lehman College, Department of Mathematics and Computer Science,
250 Bedford Park Boulevard West, Bronx, NY 10468-1589, USA
Email: vpan@lcvax.lehman.cuny.edu

D. Peleg

Faculty of Mathematics, Department of Computer Science and Applied Mathematics, The Weizman Institute,
Rehovot 76100, Israel
Email: david.peleg@weizmann.ac.il

D. Perrin

Université de Marne la Vallée, Laboratoire d'Informatique - CNRS, Institut Gaspard Monge, F-77454 Marne-la-Vallée Cedex 2, France
Email: perrin@univ-mlv.fr

H. Proding

University of Stellenbosch, Mathematics Department, 7602 Stellenbosch, South Africa
Email: hproding@sun.ac.za

G. Rozenberg

Leiden University, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands
Email: rozenber@liacs.nl

S. Sen

Indian Institute of Technology, Delhi, Department of Computer Science and Engineering, New Delhi 11016, India
Email: ssen@cse.iitd.ernet.in

P. Spirakis

Computer Technology Institute (CTI), P.O. Box 1122, 26110 Patras, Greece, CTI/+30 61997703 (Univ. Off.)
Email: spirakis@cti.gr

W. Szpankowski

Purdue University, Department of Computer Science, 1398 Computer Science Building, West Lafayette, IN 47907-1398, USA
Email: spa@cs.purdue.edu

H.J. van den Herik

Tilburg University, Centre for Creative Computing, PO Box 90153, 5000 LE Tilburg, The Netherlands
Email: h.j.vdnherik@uvt.nl

O. Watanabe

Tokyo Institute of Technology, Department of Mathematical and Computing Sciences, Meguro-ku, Ookayama, Tokyo 152-8552, Japan
Email: watanabe@is.titech.ac.jp

Editorial Board: Logic, Semantics and Theory of Programming (TCS-B)**D. Sannella** (Editor-in-Chief)

University of Edinburgh, School of Informatics, The King's Building, Mayfield Road, Edinburgh EH9 3JZ, Scotland
Email: dts@inf.ed.ac.uk

A. Avron

Tel-Aviv University, School of Computer Science, Tel-Aviv, Israel
Email: aa@math.tau.ac.il

P.-L. Curien

Université Paris 7, PPS-Case 7014, 2 pl. Jussieu, 75251 Paris Cedex 05, France
Email: curien@pps.jussieu.fr

J. Davies

Oxford University Computing Laboratory, Wolfson Building, Parks Road, Oxford OX1 3QD, UK
Email: jim.davies@comlab.ox.ac.uk

J. Esparza

Technische Universität München, Institut für Informatik (I7), Boltzmannstr. 3, D-85748 Garching bei München, Germany
Email: esparza@in.tum.de

W. Fan

School of Informatics, University of Edinburgh, Edinburgh EH8 9AB, UK
Email: wenfei@inf.ed.ac.uk

R. Gorrieri

University of Bologna, Department of Computer Science, Bologna, Italy
Email: gorrieri@cs.unibo.it

M. Hofmann

Ludwig-Maximilians-Universität München, Institut für Informatik, Oettingenstraße 67, 80538 München, Germany
Email: mhofmann@informatik.uni-muenchen.de

B.P.F. Jacobs

Radboud Universiteit Nijmegen, Department of Computer Science, Toernooiveld 1, 6525 ED Nijmegen, The Netherlands
Email: bart@cs.kun.nl

A. Jung

The University of Birmingham, School of Computer Science, Birmingham B15 2TT, UK
Email: a.jung@cs.bham.ac.uk

G. Levi

Università di Pisa, Dipartimento di Informatica, Via Buonarroti 2, I-56100 Pisa, Italy
Email: levi@di.unipi.it

H. Lin

Laboratory of Computer Science, Institute of Software, Chinese Academy of Sciences, P.O. Box 8718, Beijing 100080, China
Email: lhm@ios.ac.cn

M. Mavronicolas

University of Cyprus, Department of Computer Science, P.O. Box 20537, Nicosia CY-1678 Cyprus
Email: mavronic@cs.ucy.ac.cy

M. Mislove

Tulane University, Department of Mathematics, New Orleans, LA 70118, USA
<http://www.math.tulane.edu/~mwm>
Email: mwm@math.tulane.edu

U. Montanari

Università di Pisa, Dipartimento di Informatica, Via Filippo Buonarroti 2, I-56127, Pisa, Italy
Email: ugo@di.unipi.it

M. Nielsen

University of Aarhus, BRICS, Computer Science Department/Bld. 540, Ny Munkegade, DK-8000 Aarhus C, Denmark
Email: mnielsen@brics.dk

G. Rozenberg

Leiden University, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands
Email: rozenber@liacs.nl

V. Sassone

University of Southampton, School of Electronics and Computer Science, Southampton SO17 1BJ, UK
Email: vs@ecs.soton.ac.uk

N. Shankar

SRI (Stanford Research Institute) International, Berkeley, CA, USA
Email: shankar@cs.sri.com

P. Stevens

University of Edinburgh, School of Informatics, The King's Building, Mayfield Road, Edinburgh EH9 3JZ, UK
Email: perdita@inf.ed.ac.uk

J. Tiuryn

Institute of Informatics, ul. Banacha 2, 00-193 Warsaw, Poland
Email: tiuryn@mimuw.edu.pl

R. van Glabbeek

National ICT Australia (Sydney Laboratory), Locked Bag 6016, Sydney, NSW 1466, Australia
Email: rvg@cs.stanford.edu

M. Wirsing

Ludwig-Maximilians-Universität, Institut für Mathematik, Oettingenstrasse 67, D-80536 München, Germany
Email: wirsing@informatik.uni-muenchen.de

Editorial Board: Theory of Natural Computing (TCS-C)

G. Rozenberg (Editor-in-Chief)

Leiden University, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands
Email: rozenber@liacs.nl

T. Baeck

Universiteit Leiden, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands
Email: baeck@liacs.nl

A.G. Barto

Univ. of Massachusetts, Dept. of Computer Science, 140 Governors Drive, Amherst, MA 01003-9264, USA
Email: barto@cs.umass.edu

G. Brassard

Univ. de Montréal, Dept. IRO, C.P. 6218, Succursale Centre-Ville, Montréal, Quebec, Canada H3C 3J7
Email: brassard@iro.umontreal.ca

C.S. Calude

University of Auckland, Department of Computer Science, Maths-Physics Building 303 Room 575, 38 Princes St., Private Bag 92019, Auckland, New Zealand
Email: cristian@cs.auckland.ac.nz

L. Cardelli

Microsoft, Cambridge, UK
Email: luca@microsoft.com

D. Corne

Heriot-Watt University, School of Mathematical and Computer Sciences, Room EM G39, Riccarton, Edinburgh EH14 4AS, UK
Email: dwcorne@gmail.com

P. Degano

Dip.to di Informatica, Università di Pisa, Largo Bruno Pontecorvo, 3, I-56127 Pisa, Italy
Email: degano@di.unipi.it

G. Dreyfus

ESPCI, Lab. d'Electronique, 10 rueVauquelin, F-75005 Paris, France
Email: Gerard.Dreyfus@espci.fr

G. Eiben

Vrije Universiteit Amsterdam, Faculty of Sciences, De Boelelaan 1081a, 1081 HV Amsterdam, The Netherlands
Email: gusz@cs.vu.nl

S. Hallgren

The Pennsylvania State University, Department of Computer Science and Engineering, 348A IST Building, University Park, PA 16802, USA
Email: hallgren@cse.psu.edu

D. Harel

Weizmann Institute of Science, Faculty of Mathematics and Computer Science, P.O. Box 26, 76100 Rehovot, Israel
Email: dharel@weizmann.ac.il

J. Hillston

School of Informatics, University of Edinburgh, The Informatics Forum, 10 Crichton Street, Edinburgh EH8 9AB, UK
Email: Jane.Hillston@ed.ac.uk

M. Hirvensalo

University of Turku, Department of Mathematics, FIN-20014, Turku, Finland
Email: mikhirve@cs.utu.fi

P. Hoyer

University of Calgary, Department of Computer Science, 2500 University Drive N.W., Calgary, Alberta, Canada T2N 1N4
Email: hoyer@ucalgary.ca

N. Jonoska

University of South Florida, Tampa, USA
Email: jonoska@math.usf.edu

J. Kari

University of Turku, Finland
Email: jkari@utu.fi

L. Kari

Univ. of Western Ontario, Dept. of Computer Science, London, Ontario, Canada N6A 5B7
Email: lila@csd.uwo.ca

J.N. Kok

Universiteit Leiden, Leiden Inst. of Advanced Computer Science (LIACS), Niels Bohrweg 1, 2333 CA Leiden, The Netherlands
Email: joost@liacs.nl

S. Miyano

University of Tokyo, Institute of Medical Science, Human Genome Center, Shirokanedai 4-6-1, Minato-ku, Tokyo 108, Japan
Email: miyano@ims.u-tokyo.ac.jp

T. Mor

Computer Science Department, Technion - Israel Institute of Technology, Haifa 32000, Israel
Email: talmo@cs.technion.ac.il

P. Orponen

Helsinki Univ. of Technology, Lab. for Theoretical Computer Science, P.O. Box 5400, FIN-02150 HUT Espoo, Finland
Email: orponen@tcs.hut.fi

G. Paun

Inst. of Mathematics of the Romanian Academy, P.O. Box 1-764, 70700 Bucharest, Romania
Email: gp@astor.urv.es

I. Petre

Abo Academi University, Department of IT, Turku 20520, Finland
Email: ipetre@abo.fi

C. Reeves

School of Mathematical and Information Sciences, Coventry University, Priory St, Coventry CV15FB, UK
Email: c.reeves@coventry.ac.uk

J. Rowe

University of Birmingham, School of Computer Science, Birmingham, West Midlands B15 2TT, UK
Email: j.e.rowe@cs.bham.ac.uk

Y. Shi

University of Michigan, Electrical Engineering and Computer Science, 1301 Beal Avenue, Ann Arbor, MI 48109-2122, USA
Email: shiyy@eecs.umich.edu

A. Skowron

Wasaw University, Institute of Mathematics, Banacha 2, 02-097 Warsaw, Poland
Email: skowron@mimuw.edu.pl

C. Torras

Inst. de Robotica i Informatica Industr (CSIC-UPC), ParcTecnologic de Barcelona-Edifici U, C. Llorens i Artigas, 4-6, 2a planta, 08028 Barcelona, Spain
Email: ctorras@iri.upc.es

M.D. Vose

The Univ. of Tennessee, Dept. of Computer Science, 203 Claxton Complex, 1122 Volunteer Blvd, Knoxville TN 37996-3450, USA
Email: vose@cs.utk.edu

X. Yao

School of Computer Science, The University of Birmingham, Edgbaston Park Road, Birmingham B15 2TT, UK
Email: x.yao@cs.bham.ac.uk

T. Yokomori

Waseda Univ., Dept. of Math., School of Education, 1-6-1 Nishiwaseda, Shinjuku-ku, Tokyo 169-8050, Japan
Email: yokomori@waseda.jp

S. Zhang

The Chinese University of Hong Kong, Department of Computer Science and Engineering, Shatin, N.T., Hong Kong
Email: syzhang@cse.cuhk.edu.hk